

M-SERIES




SUBMITTAL DATA: MFZ-KJ18NA & MUFZ-KJ18NAHZ 18,000 BTU/H FLOOR-MOUNTED HEAT PUMP SYSTEM



Job Name:

System Reference:

Date:

Indoor Unit: MFZ-KJ18NA	Outdoor Unit: MUFZ-KJ18NAHZ	Wireless Remote Controller
		

GENERAL FEATURES

- Floor-mounted indoor unit mounts on the floor or up to 5" above the floor
- Floor front panel access to the filter for ease of cleaning
- Perfect for difficult areas that may be smaller or don't have usable space on the walls
- Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto
- Quiet operation
- Multi-flow vane for faster heating
- Multiple control options available:
 - Hand-held Remote Controller (provided with unit)
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Unit can be recessed mounted into wall

SPECIFICATIONS: MFZ-KJ18NA & MUFZ-KJ18NAHZ

Cooling ¹	Maximum Capacity	BTU/H	22,500
	Rated Capacity	BTU/H	17,000
	Minimum Capacity	BTU/H	5,300
	Maximum Power Input	W	2,320
	Rated Power Input	W	1,350
	Moisture Removal	Pints/h	4.4
	Sensible Heat Factor		0.65
	Power Factor	%	97 / 97
Heating at 47°F ²	Maximum Capacity	BTU/H	29,000
	Rated Capacity	BTU/H	21,000
	Minimum Capacity	BTU/H	5,700
	Maximum Power Input	W	3,430
	Rated Power Input	W	1,730
	Power Factor	%	98 / 98
Heating at 17°F ³	Maximum Capacity	BTU/H	23,000
	Rated Capacity	BTU/H	12,800
	Maximum Power Input	W	3,210
	Rated Power Input	W	1,430
Heating at 5°F ⁴	Maximum Capacity	BTU/H	21,000
	Maximum Power Input	W	3,000
Heating at -4°F ⁵	Maximum Capacity	BTU/H	18,480
Heating at -13°F ⁶	Maximum Capacity	BTU/H	15,960
Efficiency	SEER		21
	EER ¹		12.6
	HSPF (IV)		11.3
	COP at 47°F ²		3.56
	COP at 17°F in Maximum Capacity ³		2.10
	COP at 5°F in Maximum Capacity ⁴		2.05
	ENERGY STAR® certified units(ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)		YES
Electrical	Voltage, Phase, Frequency		208/230V, 1 phase, 60Hz
	Guaranteed Voltage Range	V AC	187-253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating (SCCR)	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	20
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
Indoor Unit	MCA	A	1
	MOCP	A	20
	Blower Motor Full Load Amperage	A	0.72
	Blower Motor Output	W	40

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	Airflow Rate at Cooling, Dry		CFM	491-420-328-254-198
	Airflow Rate at Cooling, Wet		CFM	417-357-279-216-168
	Airflow Rate at Heating, Dry		CFM	470-399-328-268-212
	Sound Pressure Level (Cooling)		dB(A)	50-45-39-33-28
	Sound Pressure Level (Heating)		dB(A)	49-45-40-35-29
	Drain Pipe Size		In. (mm)	5/8 (15.88)
	Heat Exchanger Type			Plate fin coil
	External Finish Color			White
	Unit Dimensions	W: In. (mm)	29-17/32 (750)	
		D: In. (mm)	8-15/32 (215)	
		H: In. (mm)	23-5/8 (600)	
	Package Dimensions	W: In. (mm)	32-2/16 (816)	
		D: In. (mm)	10-13/16 (275)	
		H: In. (mm)	27-12/16 (693)	
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)*		°F	90 DB / 73 WB // 67 DB / 57 WB
	Heating Intake Air Temp (Maximum / Minimum)		°F	80 DB // 70 DB
Outdoor Unit	MCA		A	16
	MOCP		A	20
	Fan Motor Full Load Amperage		A	0.93
	Fan Motor Output		W	77
	Airflow Rate		CFM	1,653 / 1,730
	Refrigerant Control			LEV
	Defrost Method			Reverse cycle
	Heat Exchanger Type			Plate fin coil
	Sound Pressure Level, Cooling ¹	dB(A)	55	
	Sound Pressure Level, Heating ²	dB(A)	51	
	Compressor Type			DC INVERTER-driven Twin Rotary
	Compressor Model			SNB173FQKMT
	Compressor Rated Load Amps	A	12.0	
	Compressor Locked Rotor Amps	A	15.0	
	Compressor Oil Type // Charge	oz.	FV50S // 13.5	
	External Finish Color			Munsell 3Y 7.8/1/1
	Base Pan Heater			Built-in
	Unit Dimensions	W: In. (mm)	33-1/16 (840)	
		D: In. (mm)	13 (330)	
		H: In. (mm)	34-5/8 (880)	
	Package Dimensions	W: In. (mm)	38-9/16 (980)	
		D: In. (mm)	16-9/16 (420)	
		H: In. (mm)	39 (990)	

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	Unit Weight	Lbs. (kg)	124 (56)
	Package Weight	Lbs. (kg)	144 (65)
Outdoor Unit Operating Temperature Range	Cooling Air Temp (Maximum / Minimum)*	°F	14 to 115
	Cooling Thermal Lock-out / Re-start Temperatures**	°F	11 / 14
	Heating Air Temp (Maximum / Minimum)	°F	-13 to 75
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-18 / -14
Refrigerant	Type		R410A
	Charge	Lbs, oz	3, 5
Piping	Gas Pipe Size O.D. (Flared)	In. (mm)	1/2 (12.7)
	Liquid Pipe Size O.D. (Flared)	In. (mm)	1/4 (6.35)
	Maximum Piping Length	Ft. (m)	100 (30)
	Maximum Height Difference	Ft. (m)	50 (15)
	Maximum Number of Bends		10

Notes

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
	² Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
	³ Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB
Conditions	⁴ Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB
	⁵ Heating at -4°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -4 DB, -5 WB
	⁶ Heating at -13°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -13 DB, -14 WB

*Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

**System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

ACCESSORIES: MFZ-KJ18NA

Anti-allergy Enzyme Filter	□ MAC-408FT-E
kumo touch™ RedLINK™ Wireless Controller	□ MHK2
Deluxe MA Remote Controller ¹	□ PAR-40MAAU
Simple MA Controller ¹	□ PAC-YT53CRAU-J
Touch MA Controller ¹	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ M21-EAA-307
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
System Control Interface ²	□ MAC-334IF-E
Wireless Interface 2	□ PAC-USWHS002-WF-2
Thermostat Interface	□ PAC-US444CN-1
kumo station®	□ PAC-WHS01HC-E
USNAP Interface	□ PAC-WHS01UP-E
IT Extender	□ PAC-WHS01IE-E
BACnet® and MODBUS® Interface	□ PAC-UKPRC001-CN-1
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
Lockdown Bracket for Hand-held Remote Controllers	□ RCMKP1CB
Blue Diamond Sensor Extension Cable — 15 Ft.	□ C13-103
Blue Diamond Alarm Extension Cable — 6.5 Ft.	□ C13-192
Blue Diamond MultiTank — collection tank for use with multiple pumps	□ C21-014
Blue Diamond Rubber Foot Pads	□ F10-010
Mini Condensate Pump — 230 volt application	□ SI30-230
MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	□ X87-835 - 110 to 250V
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H[recommended]	□ X87-711 - 110V
Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	□ X87-721 - 208/230V
MicroBlue Blue Diamond Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	□ X85-003
Fascia Kit for MicroBlue Pump – mounts the MicroBlue and sensor directly beneath the indoor unit	□ T18-016
Drain Pan Level Sensor	□ SS610E
(30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W
Guides air flow for floor mount model when a concealer is used to hide the floor mount.	□ MAC-760FD-E

¹ Requires MAC-334IF-E

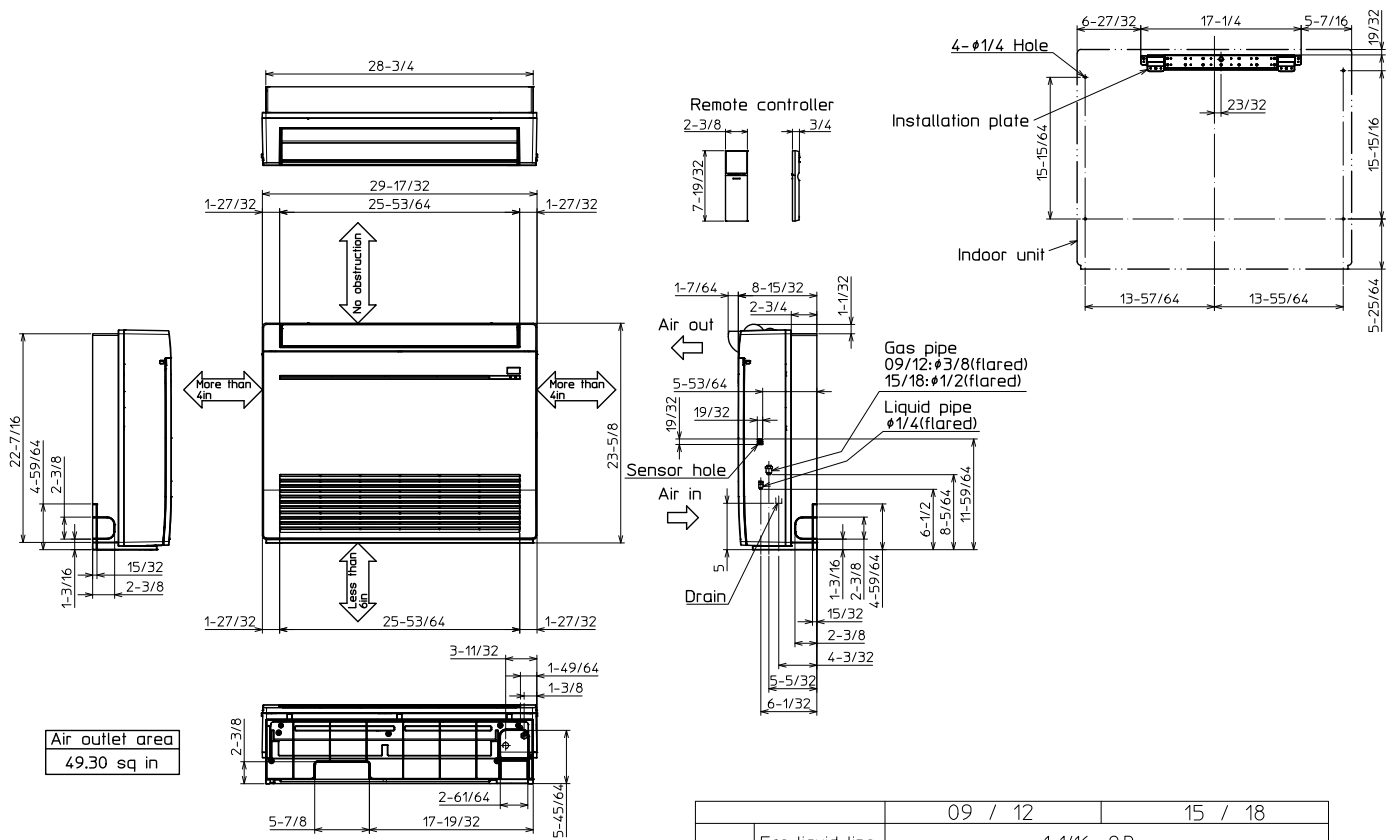
² Allows indoor units to connect to an MA Controller

ACCESSORIES: MUFZ-KJ18NAHZ

Air Outlet Guide	□ MAC-886SG-E
Hail Guard	□ HG-A7
Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	□ DSD-400P
Condensing Unit Mounting Pad 16" x 36" x 3"	□ ULTRILITE1
Outdoor Unit Stand — 12" High	□ QSMS1201M
Outdoor Unit Stand — 18" High	□ QSMS1801M
Outdoor Unit Stand — 24" High	□ QSMS2401M
Heavy Duty Wall Mounting Bracket— Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket — 316 Series Stainless Steel	□ QSWBSS
15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-15
30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-30
50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-50
65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-65
100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-100

DIMENSIONS: MFZ-KJ18NA

Unit: inch



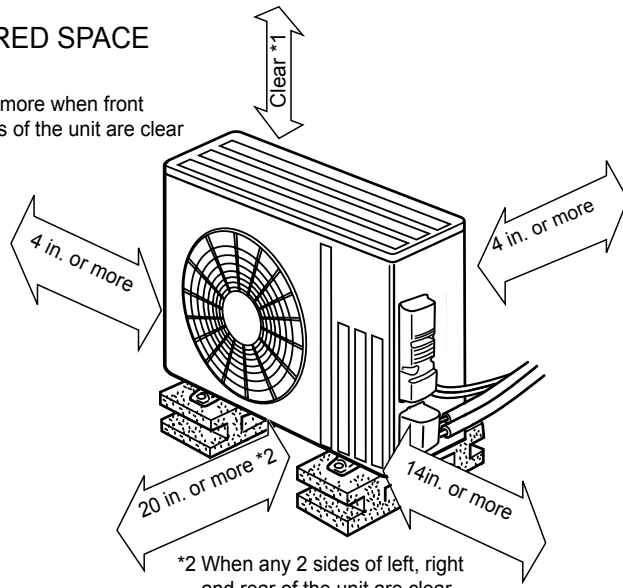
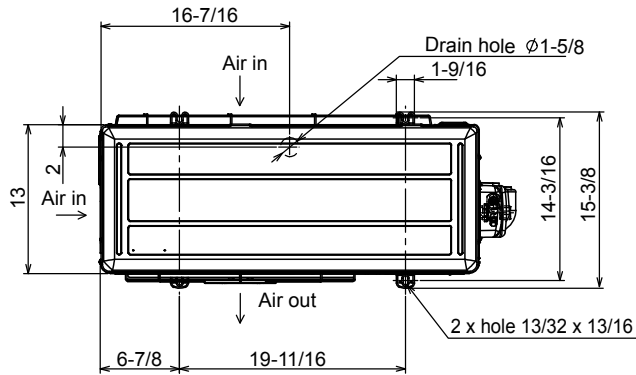
		09 / 12		15 / 18	
Pipe cover	For liquid line	1-1/16 O.D			
	For gas line	1-1/16 O.D		1-7/32 O.D	
Piping	Liquid line	Flared connection 1/4			
	Gas line	Flared connection 3/8		Flared connection 1/2	
Drain hose		Heat insulator 1-9/64 O.D	Connection point 5/8 O.D	Effective length 13-25/32 (case of right backward piping)	

DIMENSIONS: MUFZ-KJ18NAHZ

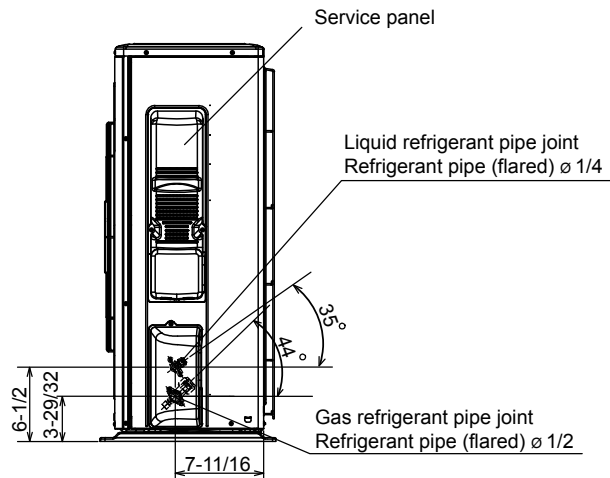
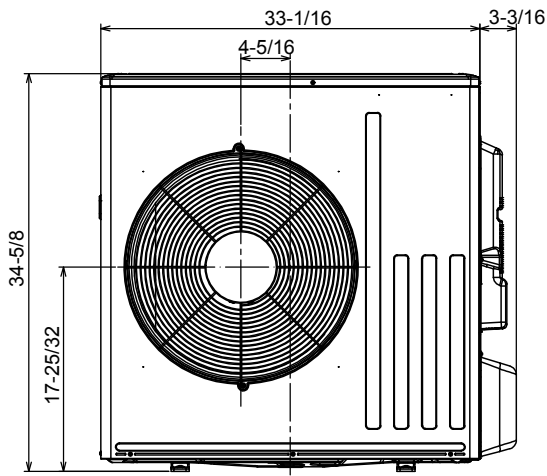
Unit: inch

REQUIRED SPACE

*1 20 in. or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear



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FORM# MFZ-KJ18NA / MUFZ-KJ18NAHZ - 202003

Specifications are subject to change without notice.

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